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<b>DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION</b> (37 CFR 1.63)	<b>Attorney Docket Number</b>	060783/P010US/10104632
	<b>First Named Inventor</b>	Richard A. Shields
	<b>COMPLETE IF KNOWN</b>	
	<b>Application Number</b>	09/975,732
	<b>Filing Date</b>	October 11, 2001
<input type="checkbox"/> Declaration Submitted with Initial Filing	<b>Art Unit</b>	N/A
	<b>Examiner Name</b>	Not Yet Assigned
<input checked="" type="checkbox"/> Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)		

As the below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below next to my name.

I believe I am the original and first inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

MECHANICALLY ROTATABLE WIRELESS RF DATA TRANSMISSION SUBSCRIBER STATION WITH MULTI-BEAM ANTENNA

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(Title of the Invention)

the specification of which

☐ is attached hereto  
OR

☒ was filed on (MM/DD/YYYY) 10/11/2001 as United States Application Number or PCT International

Application No. 09/975,732 and was amended on (MM/DD/YYYY) (if applicable).

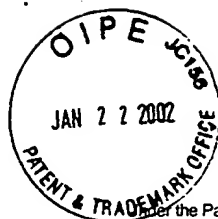
I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365 (a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or of any PCT international application having a filing date before that of the application on which priority is claimed.

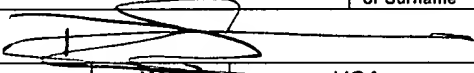
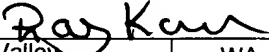
Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:



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## DECLARATION — Utility or Design Patent Application

Direct all correspondence to: <input type="checkbox"/> Customer Number or Bar Code Label		<input checked="" type="checkbox"/> Correspondence address below	
Name <b>FULBRIGHT &amp; JAWORSKI L.L.P.</b> Jerry L. Mahurin			
Address <b>2200 Ross Avenue</b> Suite 2800			
City <b>Dallas</b>	State <b>TX</b>	ZIP <b>75201</b>	
Country <b>US</b>	Telephone <b>(214) 855-8000</b>	Fax <b>(214) 855-8200</b>	
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.			
NAME OF SOLE OR FIRST INVENTOR:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any]) <b>Richard A.</b>		Family Name or Surname <b>Shields</b>	
Inventor's Signature 		Date <b>12/11/01</b>	
Residence: City <b>Kirkland</b>	State <b>WA</b>	Country <b>USA</b>	Citizenship <b>US</b>
Mailing Address: <b>11207 NE 106th Place</b>			
City <b>Kirkland</b>	State <b>WA</b>	ZIP <b>98033</b>	Country <b>USA</b>
NAME OF SECOND INVENTOR:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any]) <b>Randy J.</b>		Family Name or Surname <b>Karr</b>	
Inventor's Signature 		Date <b>12/11/01</b>	
Residence: City <b>Maple Valley</b>	State <b>WA</b>	Country <b>USA</b>	Citizenship <b>US</b>
Mailing Address: <b>21409 SE 215th Street</b>			
City <b>Maple Valley</b>	State <b>WA</b>	ZIP <b>98038</b>	Country <b>USA</b>
<input checked="" type="checkbox"/> Additional inventors are being named on the <u>2</u> supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.			

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<b>DECLARATION</b>	<b>ADDITIONAL INVENTOR(S)</b> Supplemental Sheet Page 1 of 2
--------------------	--

Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any)) James E.		Family Name or Surname DeMaria	
Inventor's Signature <i>James E. DeMaria</i>		Date 12/10/01	
Residence: City Seattle	State WA	Country USA	Citizenship US
Mailing Address: 7002 14 <sup>th</sup> Ave. SW			
City Seattle	State WA	ZIP 98106	Country USA
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any)) Carter K.		Family Name or Surname Green	
Inventor's Signature <i>Carter K. Green</i>		Date 12/10/2001	
Residence: City Lynnwood	State WA	Country USA	Citizenship US
Mailing Address: 1317 195th St. SW			
City Lynnwood	State WA	ZIP 98036	Country USA
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any)) Gregory D.		Family Name or Surname Perrigo	
Inventor's Signature <i>Gregory D. Perrigo</i>		Date 12/10/01	
Residence: City Woodinville	State WA	Country USA	Citizenship US
Mailing Address: 19812 154th Court NE			
City Woodinville	State WA	ZIP 98072	Country USA
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any)) Barry S.		Family Name or Surname Cobb	
Inventor's Signature <i>Barry S. Cobb</i>		Date 12-11-01	
Residence: City Renton	State WA	Country USA	Citizenship US
Mailing Address: 1506 Monterey Ave. NE			
City Renton	State WA	ZIP 98056	Country USA

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<b>DECLARATION</b>	<b>ADDITIONAL INVENTOR(S)</b> Supplemental Sheet Page 2 of 2
--------------------	--

Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any)) Kent W.		Family Name or Surname Olson	
Inventor's Signature <i>Kent W. Olson</i>		Date 12/7/01	
Residence: City North Bend	State WA	Country USA	Citizenship US
Mailing Address: 16725 Cedar Falls Rd. SE			
City North Bend	State WA	ZIP 98045	Country USA
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any)) Mark D.		Family Name or Surname Reudink	
Inventor's Signature <i>Mark D. Reudink</i>		Date 12/6/01	
Residence: City Seattle	State WA	Country USA	Citizenship US
Mailing Address: 121 Northeast 58th Street			
City Seattle	State WA	ZIP 98105	Country USA
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Inventor's Signature		Date	
Residence: City	State	Country	Citizenship
Mailing Address:			
City	State	ZIP	Country
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Inventor's Signature		Date	
Residence: City	State	Country	Citizenship
Mailing Address:			
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<b>POWER OF ATTORNEY OR AUTHORIZATION OF AGENT</b>	<b>Application Number</b>	09/975,732
	<b>Filing Date</b>	October 11, 2001
	<b>First Named Inventor</b>	Richard A. Shields
	<b>Title</b>	MECHANICALLY ROTATABLE WIRELESS, RF DATA, etc.
	<b>Group Art Unit</b>	N/A
	<b>Examiner Name</b>	Not Yet Assigned
	<b>Attorney Docket No.</b>	060783/P010US/10104632

I hereby appoint:

☐

Practitioners at Customer Number

Customer Number

OR

☒

Practitioner(s) named below:

Customer Number Bar Code

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Name	Registration Number	Name	Registration Number
Jody C. Bishop	44,034	Michael A. Papalas	40,381
Michael J. Fogarty, III	42,541	David H. Tannenbaum	24,745
Matthew D. Jones	44,810	William B. Tiffany	41,347
Jerry L. Mahurin	34,661	R. Ross Viguet	42,203
Thomas J. Meaney	41,990		

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please change the correspondence address for the above-identified application to:

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Individual Name

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I am the:

☐

Applicant/Inventor.

☒Assignee of record of the entire interest. See 37 CFR 3.71.  
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

SIGNATURE of Applicant or Assignee of Record

<b>Name</b>	Vectrad Networks Corporation, Richard A. Shields, President and COO
<b>Signature</b>	
<b>Date</b>	12/10/01

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required. See below\*.

☐

\*Total of \_\_\_\_\_ forms are submitted.



#3

### STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Richard A. Shields, et al.

Application No./Patent No.: 09/975,732 Filed/Issue Date: October 11, 2001

Entitled: MECHANICALLY ROTATABLE WIRELESS RF DATA TRANSMISSION SUBSCRIBER STATION WITH MULTI-BEAM ANTENNA

Vectrad Network Corp., a Corporation  
(Name of Assignee) Type of Assignee, e.g., corporation, partnership, university, government agency, etc.

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.  
The extent (by, percentage) of its ownership interest is \_\_\_\_\_ %

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in the patent application/patent identified above by virtue of either:

A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

- ☒ Copies of assignments or other documents in the chain of title are attached.  
**[NOTE:** A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

December 19, 2001  
Date

Jerry L. Mahurin  
Typed or printed name

[Signature]  
Signature

Patent Attorney  
Title

## **ASSIGNMENT BY INVENTORS**

**THIS ASSIGNMENT**, made by Richard A. Shields; Randy J. Karr; James E. DeMaria; Carter K. Green; Gregory D. Perrigo; Barry S. Cobb; Kent W. Olson; and Mark D. Reudink (hereinafter referred to as Assignors), residing at 11207 NE 106th Place, Kirkland, Washington 98033; 21409 SE 215th Street, Maple Valley, Washington 98038; 7002 14<sup>th</sup> Ave. SW, Seattle, Washington 98106; 1317 195th St. SW, Lynnwood, Washington 98036; 19812 154th Court NE, Woodinville, Washington 98072; 1506 Monterey Ave. NE, Renton, Washington 98056; 16725 Cedar Falls Rd. SE, North Bend, Washington 98045; and 121 Northeast 58th Street, Seattle, Washington 98105, respectively;

**WHEREAS**, Assignors have invented certain new and useful improvements in MECHANICALLY ROTATABLE WIRELESS RF DATA TRANSMISSION SUBSCRIBER STATION WITH MULTI-BEAM ANTENNA, set forth in a Patent Application for Letters Patent of the United States, already filed on October 11, 2001 as U.S. Application No. 09/975,732; and

**WHEREAS**, Vectrad Network Corp., a Corporation organized under and pursuant to the laws of Delaware having its principal place of business at 21520 30th Drive SE; Bldg. A, Suite 2110; Bothell, Washington 98021 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

**NOW, THEREFORE**, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial

Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

**AND** for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

**AND** for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

**AND** Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

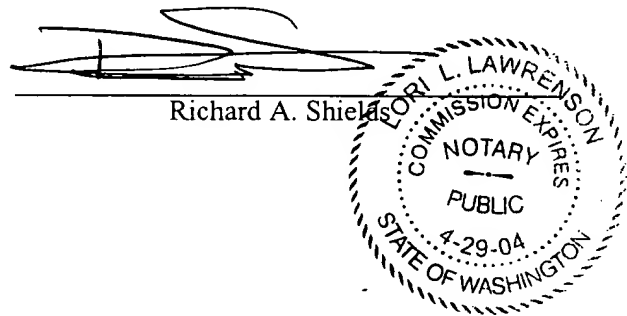


AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

FULBRIGHT & JAWORSKI L.L.P.

Jody C. Bishop	44,034	Jerry L. Mahurin	34,661	David H. Tannenbaum	24,745
Michael J. Fogarty, III	42,541	Thomas J. Meaney	41,990	William B. Tiffany	41,347
Matthew D. Jones	44,810	Michael A. Papalas	40,381	R. Ross Viguet	42,203

AND Assignors acknowledge an obligation of assignment of this invention **COPY OF PAPERS  
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Assignee at the time the invention was made.



Date: 12/10/01

United States of America )  
State of Washington ) ss.:  
County of King )

On this 10<sup>th</sup> day of December, 2001, before me personally came Richard A. Shields, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Lori L. Lawrenson  
Notary Public

Randy J. Karr  
Randy J. Karr  
NOTARY PUBLIC  
COMMISSION EXPIRES 4-29-04  
STATE OF WASHINGTON

Date: 12/11/01

United States of America )  
State of Washington ) ss.:  
County of King )

On this 11<sup>th</sup> day of December, 2001, before me  
personally came Randy J. Karr, to me known to be the individual  
described in and who executed the foregoing instrument, and acknowledged execution  
of the same.

Lori L. Lawrenson  
Notary Public  
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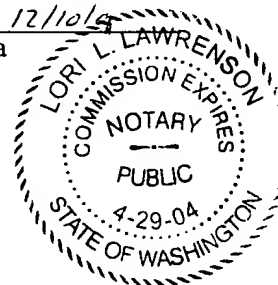
James E. DeMaria 12/10/01  
James E. DeMaria

Date: 12/10/01

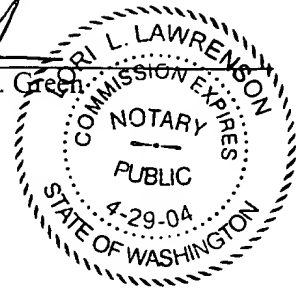
United States of America )  
State of Washington ) ss.:  
County of King )

On this 10<sup>th</sup> day of December, 2001, before me  
personally came James E. DeMaria, to me known to be the individual  
described in and who executed the foregoing instrument, and acknowledged execution  
of the same.

Lori L. Lawrenson  
Notary Public



Carter K. Green  
Carter K. Green



Date: 12/10/2001

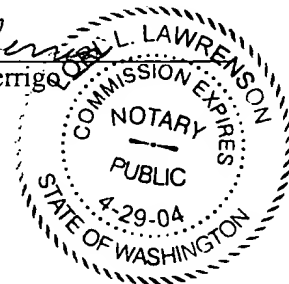
United States of America )  
State of Washington ) ss.:  
County of King )

On this 10th day of December, 2001, before me  
personally came Carter K. Green, to me known to be the individual  
described in and who executed the foregoing instrument, and acknowledged execution  
of the same.

Lori L. Lawrenson  
Notary Public

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Gregory D. Perrigo  
Gregory D. Perrigo



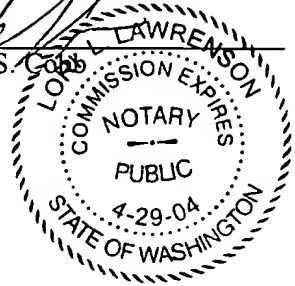
Date: 12/10/01

United States of America )  
State of Washington ) ss.:  
County of King )

On this 10th day of December, 2001, before me  
personally came Gregory D. Perrigo, to me known to be the individual  
described in and who executed the foregoing instrument, and acknowledged execution  
of the same.

Lori L. Lawrenson  
Notary Public

Barry S. Cobb  
Barry S. Cobb



Date: 12/11/01

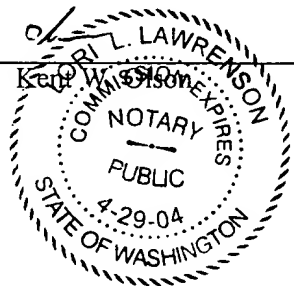
United States of America )  
State of Washington ) ss.:  
County of King )

On this 11<sup>th</sup> day of December, 2001, before me  
personally came Barry S. Cobb, to me known to be the individual  
described in and who executed the foregoing instrument, and acknowledged execution  
of the same.

Lori L. Lawrenson  
Notary Public

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Kent W. Olson  
Kent W. Olson

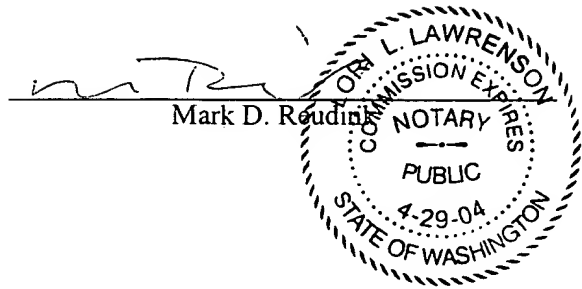


Date: 12-11-01

United States of America )  
State of Washington ) ss.:  
County of King )

On this 11<sup>th</sup> day of December, 2001, before me  
personally came Kent W. Olson, to me known to be the individual  
described in and who executed the foregoing instrument, and acknowledged execution  
of the same.

Lori L. Lawrenson  
Notary Public



Date: 12/10/01

United States of America )  
State of Washington ) ss.:  
County of King )

On this 10th day of December, 2001, before me  
personally came Mark D. Reudink, to me known to be the individual  
described in and who executed the foregoing instrument, and acknowledged execution  
of the same.

Lori L. Lawrenson  
Notary Public

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